Bruhat Bangalore Mahanagara Palike
Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

NAME OF WORK: Improvements to drains and footpath at Janapriya apartment to Gnanadeepika school in ward no 04

PROJECT COST: 50.00 Lakhs

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work:Improvements to drains and footpath at Janapriya apartment to Gnanadeepika school in ward no 04

Sl. No	Particulars	Unit / Rate	Estimate Amount : 5000000.00 Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
					CIVIL WORKS				
1	Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2015-16).								
	Existing Cover slab	Sqm							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	387	1.20		464.40		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50		-1	50	1.20		-60.00		
	Deuction formissing length (94-54) = 40		-1	40	1.20		-48.00		
	Ch: (0 - 387)		1	387	1.20		464.40		
	Deduction for mtssing length (387-40) = 347		-1	347	1.20		-416.40		
							404.40	63.72	25768.37
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3) (Page No 25., I.No.5.33 of KPWD S.R 2015-16).								
	Existing Cover slab	Sqm							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	387	1.20		464.40		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50		-1	50	1.20		-60.00		
	Deuction formissing length (94-54) = 40		-1	40	1.20		-48.00		
	Ch: (0 - 387)		1	387	1.20		464.40		
	Deduction for missing length (387-40) = 347		-1	347	1.20		-416.40		
							404.40		
	Deduction for damaged 35%						-141.54		
							262.86	78.84	20723.88
3	Providing precast slab of **100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- **Data rate**								
	New Slabs	Sqm							

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)								
	Deuction formissing length (94-54) = 40		1	40	1.20		48.00		
	Ch: (0 - 387)								
	Deduction for missing length (387-40) = 347		1	347	1.20		416.40		
	Shoulder drain-Slab								
			12	2.2	0.60		15.84		
			12	2	0.60		14.40		
	for damaged								
							141.54		
							636.18	1834.00	1166754.12
4	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.Specification No. KBS **(Page No 101., I.No.14.6 of KPWD S.R 2015-16).**								
		Sqm							
	1st main								
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	387	1.70		657.90		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50		-1	50	1.70		-85.00		
	Ch: (0 - 387)		1	387	1.50		580.50		
							1153.40	934.20	1077506.28
5	KSRB 5-14 : Providing and constructing **precast concrete solid blocks** with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size **40x10x20cms** conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **(Page No 25., I.No.5.28 of KPWD S.R 2015-16).**								
	Lateral Support	Sqm							
	1st main								
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	387		0.200	77.40		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50		-1	50		0.200	-10.00		
	Ch: (0 - 387)		1	387		0.200	77.40		
	Shoulder drain								

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
			24	2.2		0.400	21.12		
			24	2		0.400	19.20		
							185.12	743.04	137551.56
6	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	387	0.60	0.700	162.54		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50		-1	50	0.60	0.700	-21.00		
	Deuction formissing length (94-54) = 40		-1	40	0.60	0.700	-16.80		
	Ch: (0 - 387)		1	387	0.60	0.700	162.54		
	Deduction for missing length (387-40) = 347		-1	347	0.60	0.700	-145.74		
	New Culverts								
			3	7	1.50	0.900	28.35		
							169.89	177.88	30220.03
7	**KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	New Culverts								
			3	7	1.50	0.100	3.15		
	Shoulder drain								
			12	2.2	0.60	0.100	1.58		
			12	2	0.60	0.100	1.44		
							6.17	5236.92	32332.74
8	**KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,** stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page No 23., I.No.5.6 of KPWD S.R 2015-16).**								
		Cum							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		2	337	0.45	0.450	136.49		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		2	387	0.45	0.450	156.74		
	New Culverts								
			6	7	0.45	0.850	16.07		
							309.29	**4135.32**	**1278992.45**
9	**1 KSRB 15.1.1 Providing flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(Page No 112., I.No.15.1 of KPWD S.R 2015-16).**								
		Sqm							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		2	337		0.450	303.30		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		2	387		0.450	348.30		
	New Culverts								
			6	7		0.850	35.70		
							687.30	**99.36**	**68290.13**
10	**KSRB 4-1.6 ;** Providing and laying in position plain cement concrete of mix **1:2:4 with cement @ 240kgs, with 20mm** and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2015-16).**								
		Sqm							
	Packing concrete								
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	337	0.20	0.150	10.11		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		1	387	0.20	0.150	11.61		
	Coping concrete								
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		2	337	0.45	0.075	22.75		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		2	387	0.45	0.075	26.12		
	Shoulder drain-Coping								
			24	2.2	0.10	0.075	0.40		
			24	2	0.10	0.075	0.36		
	Shoulder drain vent								
			12	2.2	0.40	0.100	1.06		
			12	2	0.40	0.100	0.96		
	New Culverts								
			6	7	0.45	0.075	1.42		
							74.78	5490.72	410593.30
11	**Providing precast slab of 250mm** thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	New Culverts								
			3	7	1.50		31.50		
							31.50	5111.00	160996.50
12	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. **(Page No 25., I.No.5.30 of KPWD S.R 2015-16).**								
		Nos							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	337			749.00		
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		1	387			860.00		
							1609.00	320.76	516102.84
	ROAD FURNITURES								
13	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8**(Page No 179, I.No.24.1 of KPWD S.R 2015-16).**								
	Kerb Painting	Sqm							
	14th cross from 8th main to 14th main								
	Ch: (0 - 387)		1	337		0.300	101.10		

Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Deuction for Cross roads (54-45)+(104-94)+(168-159)+(229-221)+(305-298)+(344-337) = 50								
	Ch: (0 - 387)		1	387		0.300	116.10		
							217.20	61.56	13370.83
					Sub Total				4939203.03
14	Cost towards Design Report and Detailed Estimate,PMC/Third party								49392.03
###	Misclienous and other charges								11404.93
					Grand Total				5000000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-02
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP